EXTRAPOLATED WITHDRAWAL-INTERVAL ESTIMATOR (EWE)

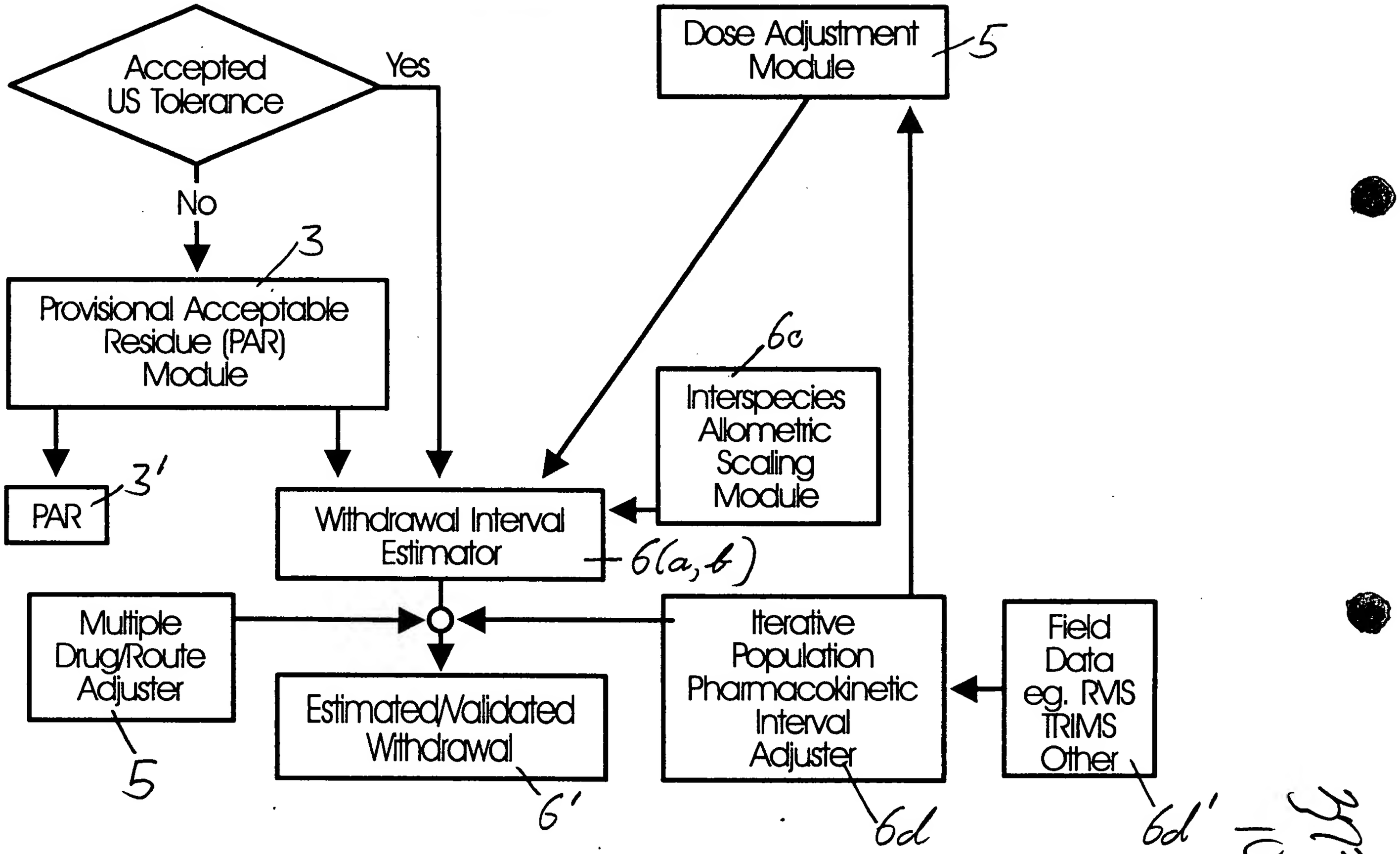

FIG 1

TISSUE DEPLETION CURVES

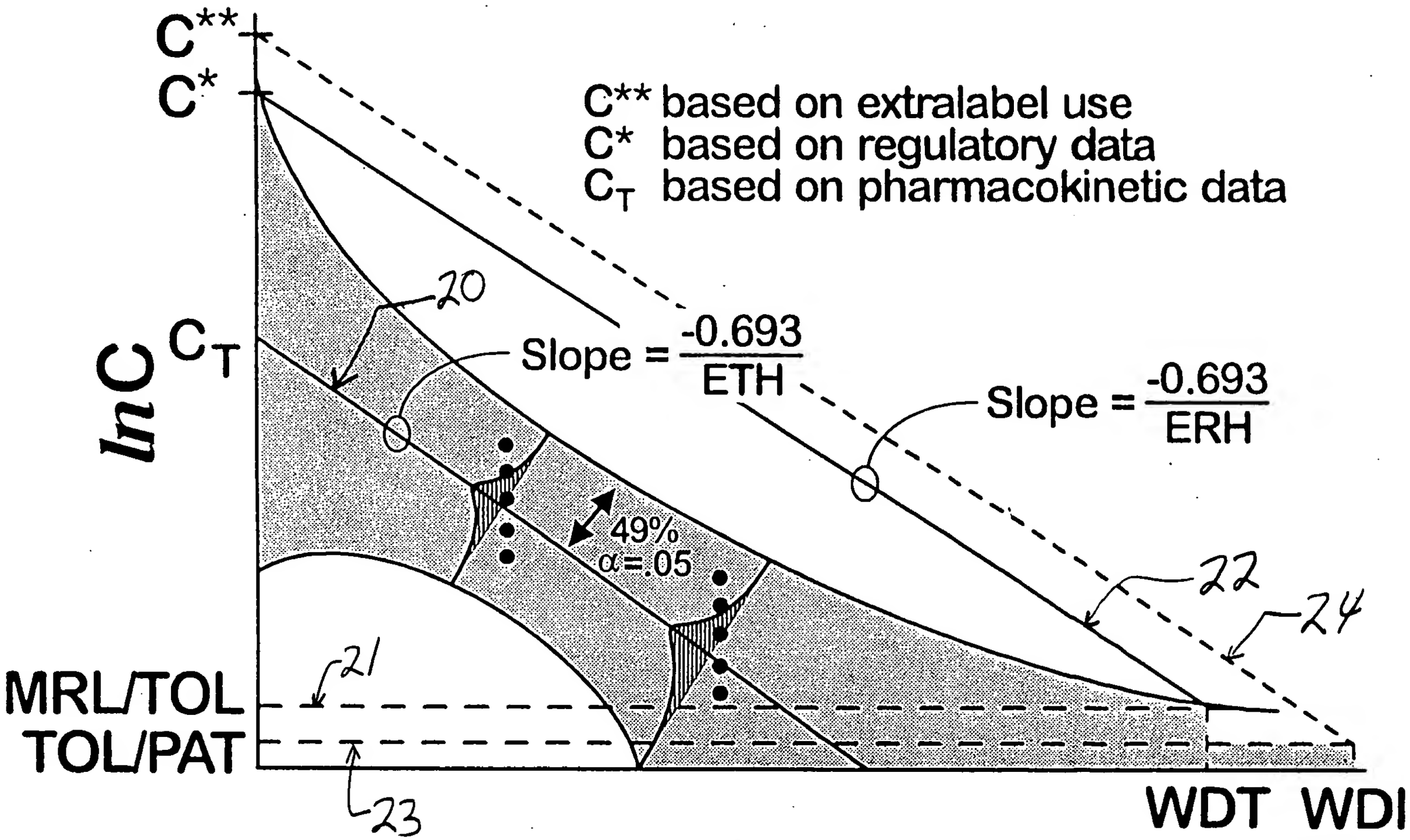

FIG. 2

PARs

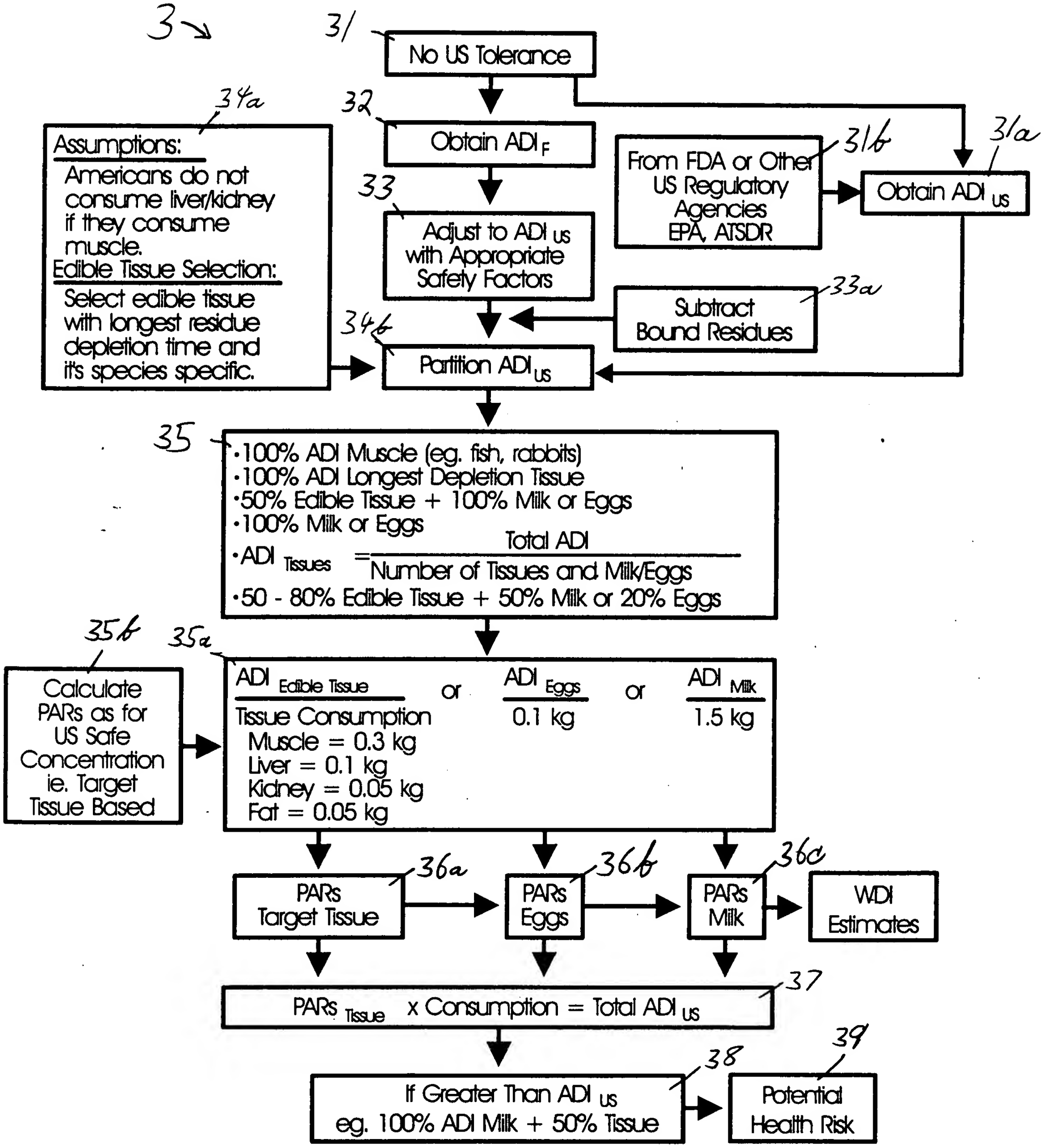
3
31
No US Tolerance
34a
Assumptions:
Americans do not consume liver/kidney if they consume muscle.
Edible Tissue Selection:
Select edible tissue with longest residue depletion time and it's species specific.
32
Obtain ADI F
33
Adjust to ADI us with Appropriate Safety Factors
31b
From FDA or Other US Regulatory Agencies EPA, ATSDR
31a
Obtain ADI us
33a
Subtract Bound Residues
34b
Partition ADI us
35
•100% ADI Muscle (eg. fish, rabbits)
•100% ADI Longest Depletion Tissue
•50% Edible Tissue + 100% Milk or Eggs
•100% Milk or Eggs
•ADI Tissues = Total ADI / Number of Tissues and Milk/Eggs
•50 - 80% Edible Tissue + 50% Milk or 20% Eggs
35b
Calculate PARs as for US Safe Concentration ie. Target Tissue Based
35a
ADI Edible Tissue / Tissue Consumption
Muscle = 0.3 kg
Liver = 0.1 kg
Kidney = 0.05 kg
Fat = 0.05 kg
or
ADI Eggs / 0.1 kg
or
ADI Milk / 1.5 kg
36a
PARs Target Tissue
36b
PARs Eggs
36c
PARs Milk
WDI Estimates
37
PARs Tissue x Consumption = Total ADI us
38
If Greater Than ADI us
eg. 100% ADI Milk + 50% Tissue
39
Potential Health Risk

FIG 3

MARKER RESIDUE ADJUSTMENT

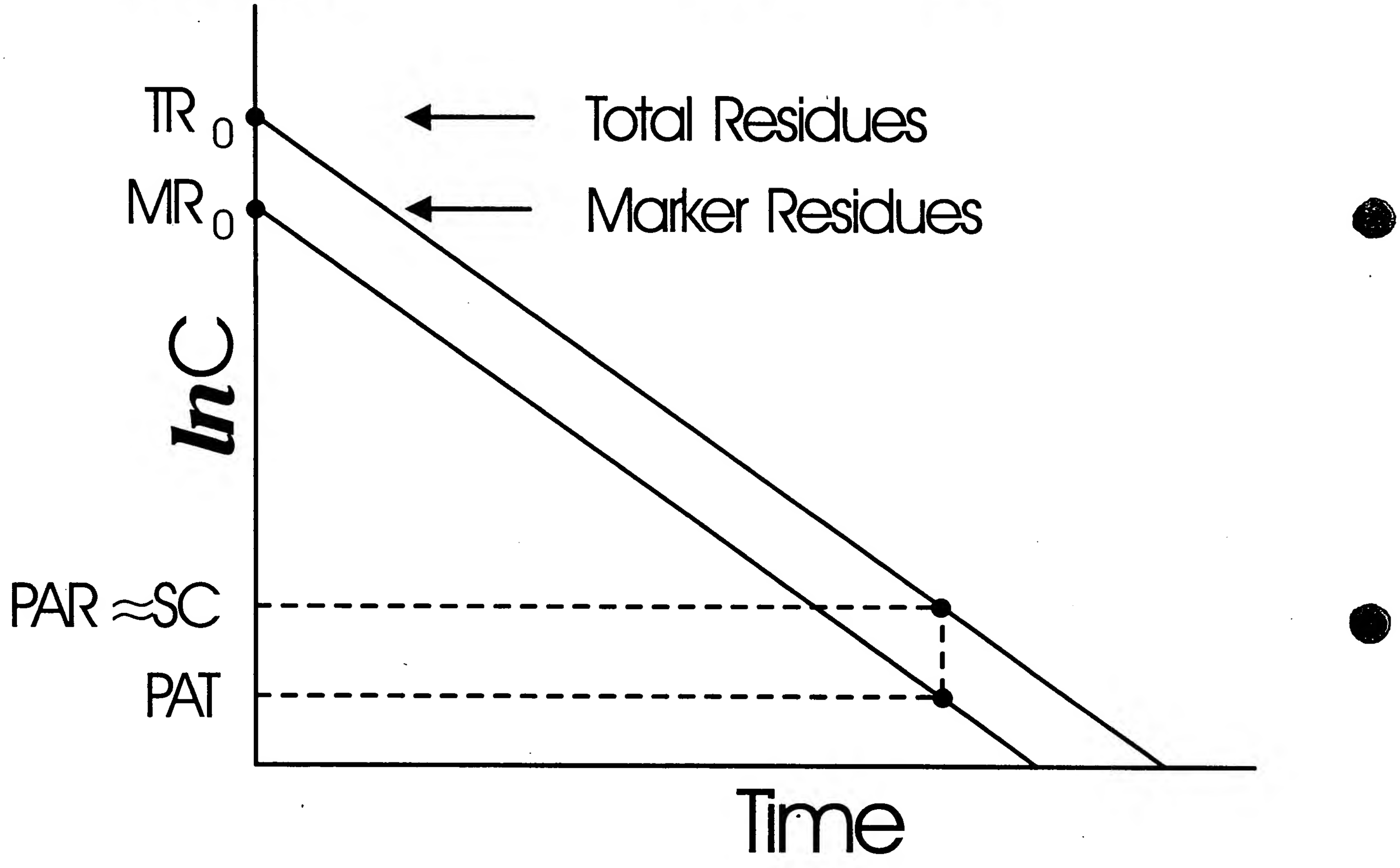

FIG 4

DOSE ADJUSTER MODULE

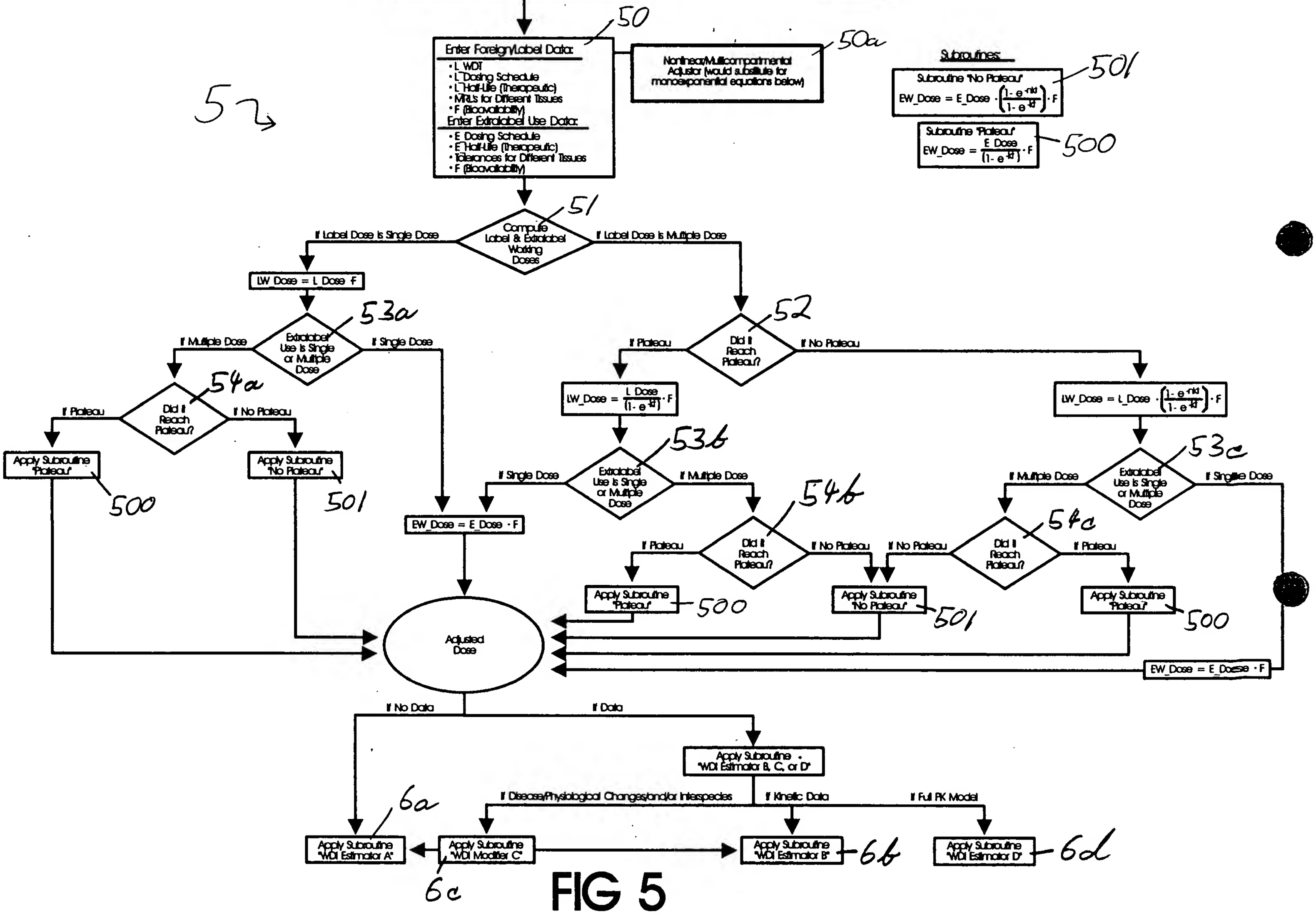

FIG 5

WITHDRAWAL INTERVAL ESTIMATOR - A

6a

Assume HLM = 5

Use Tol. if Label in U.S.
Use MRL if Label is Foreign

Use Tol. if Label in U.S.
Use PAT if not approved in U.S.

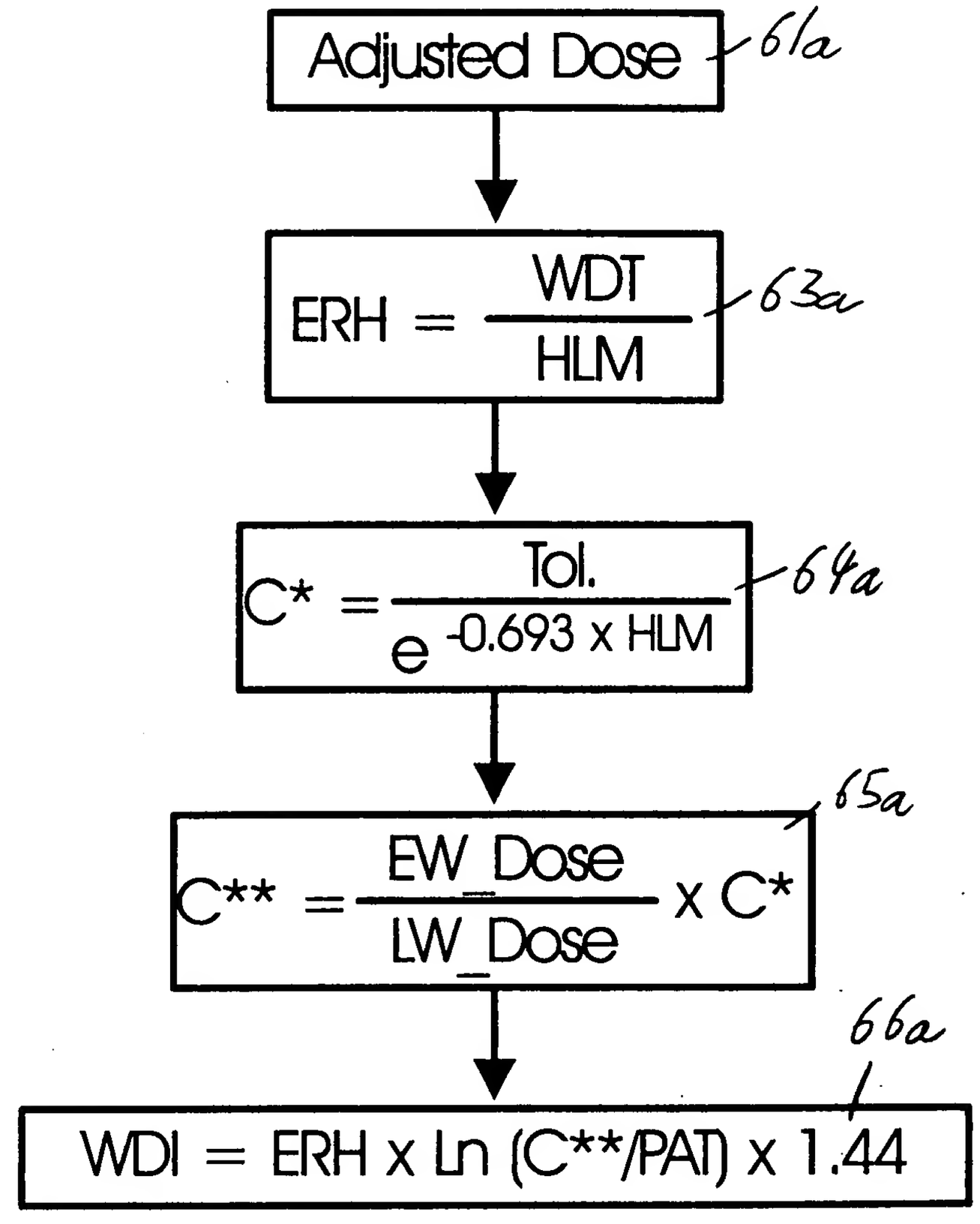

FIG 6A

WITHDRAWAL INTERVAL ESTIMATOR - B

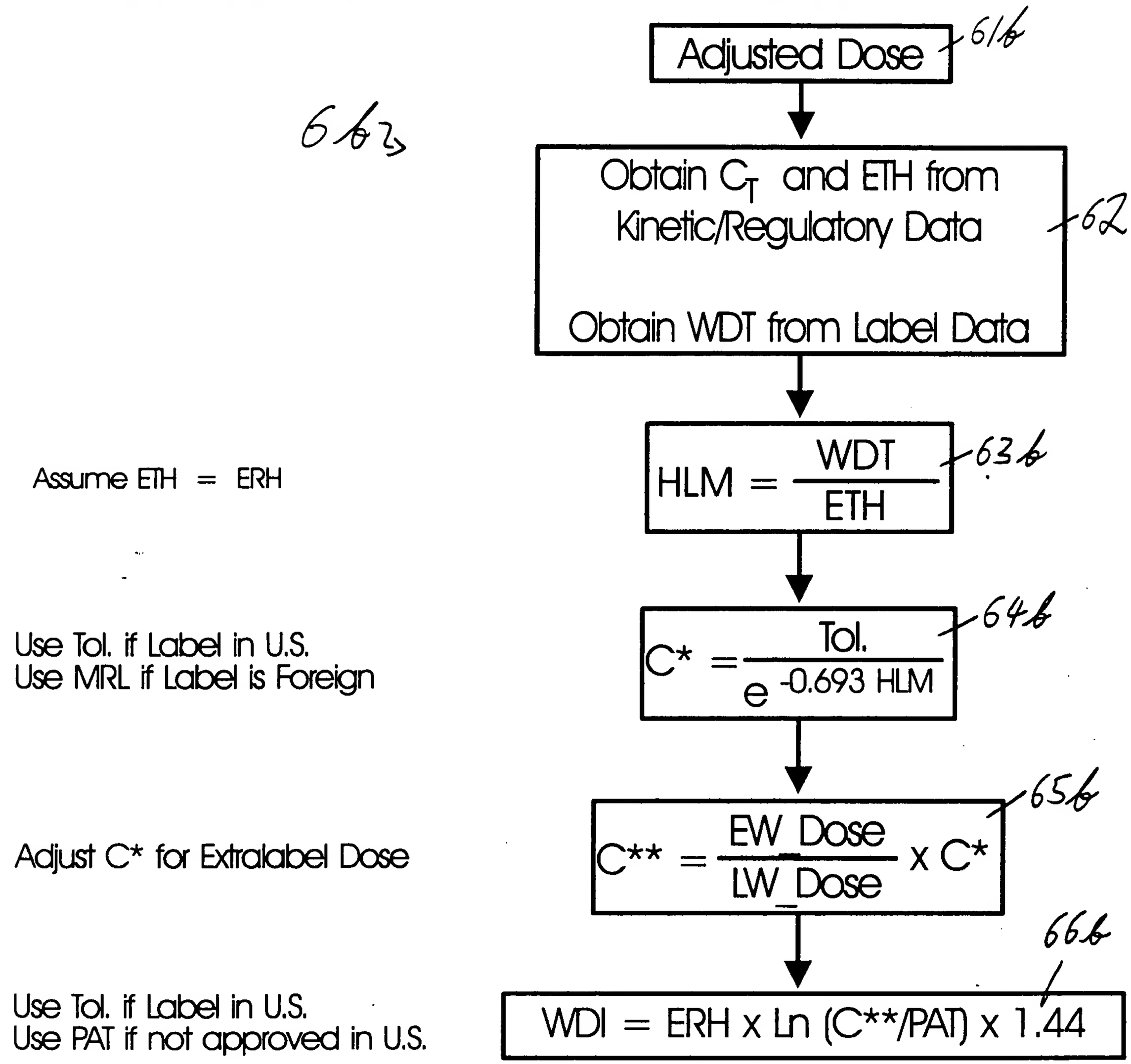

FIG 6B

WITHDRAWAL INTERVAL MODIFIER - C

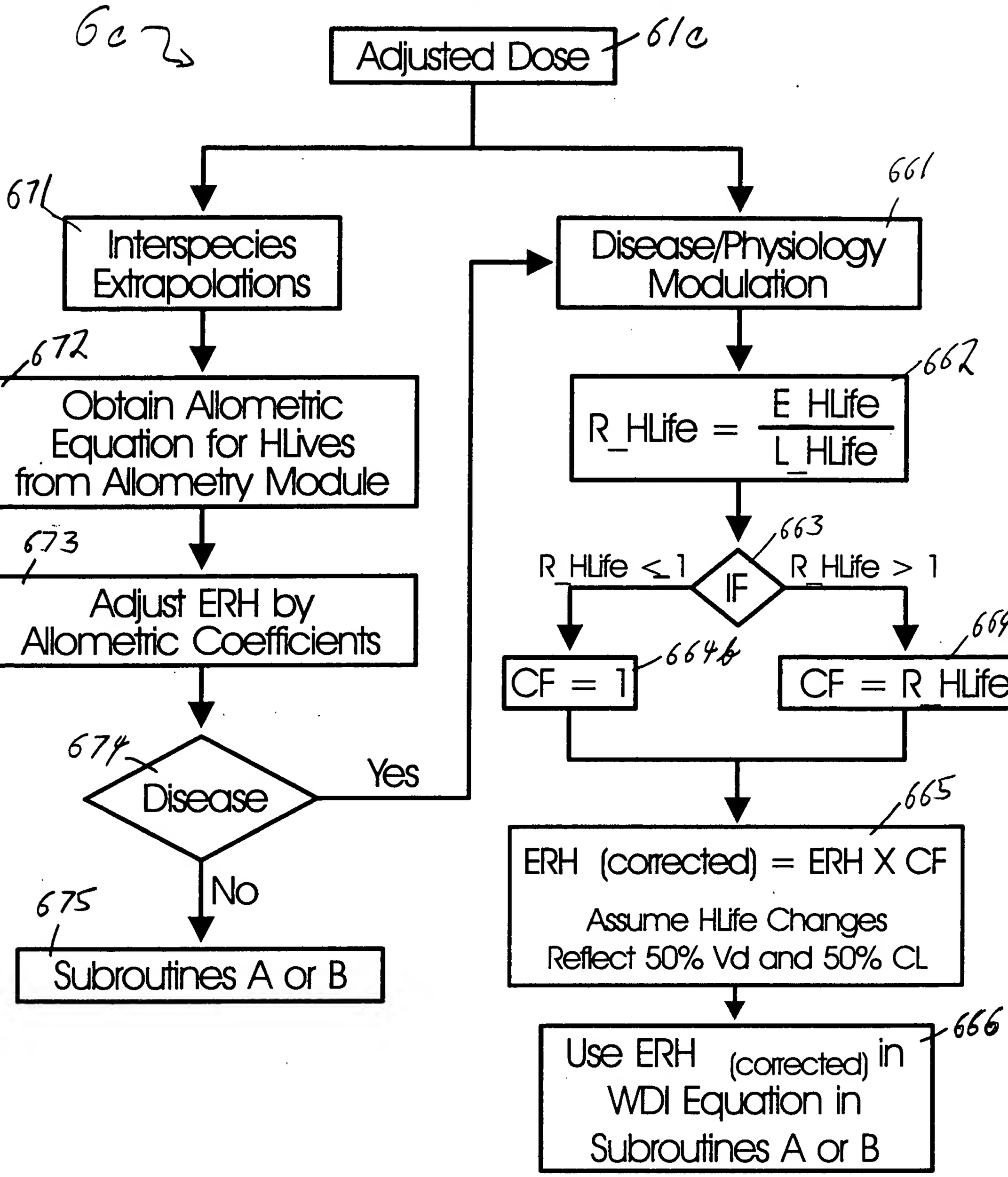

FIG 6C

WITHDRAWAL INTERVAL ESTIMATOR - D

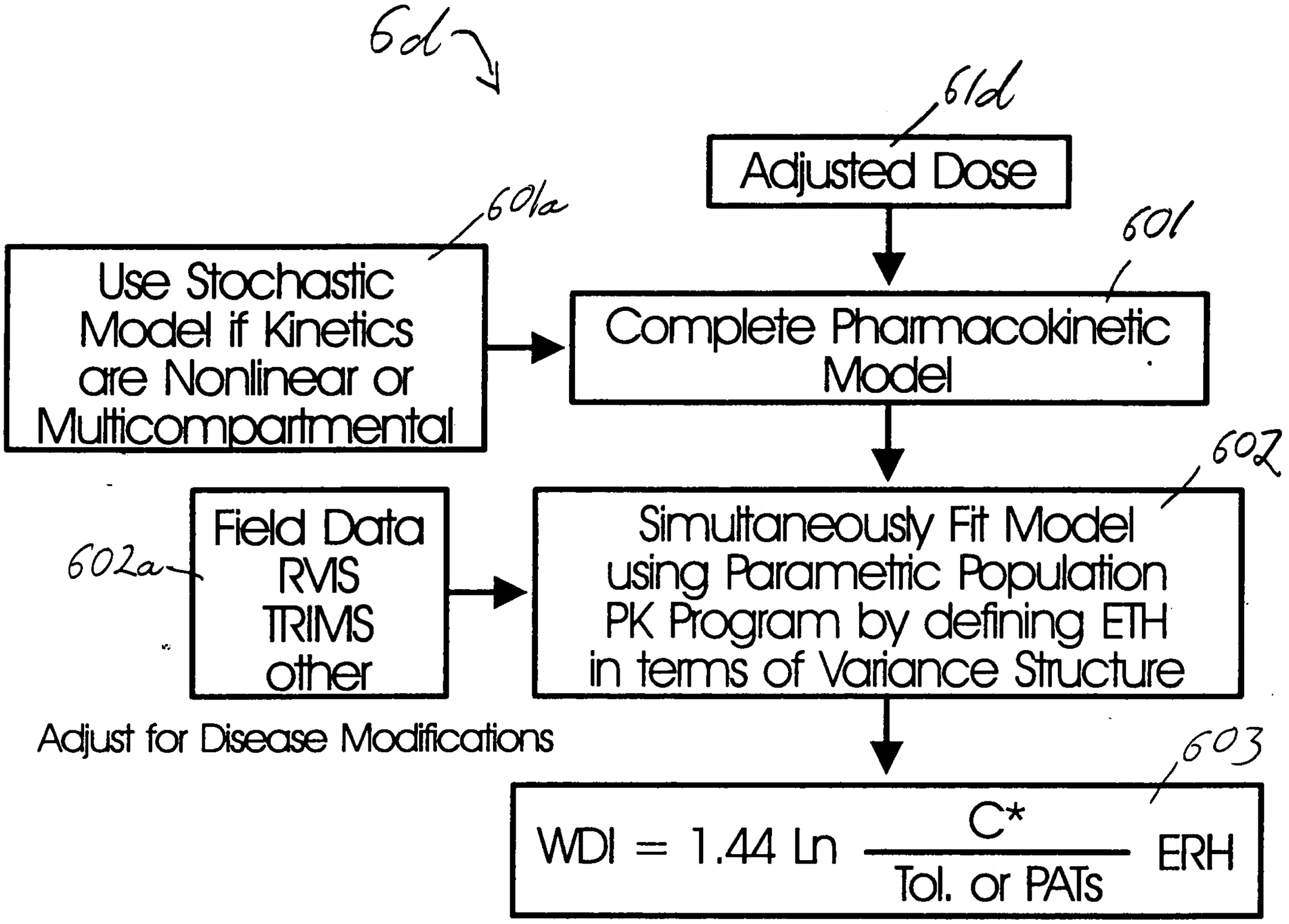

FIG 6D

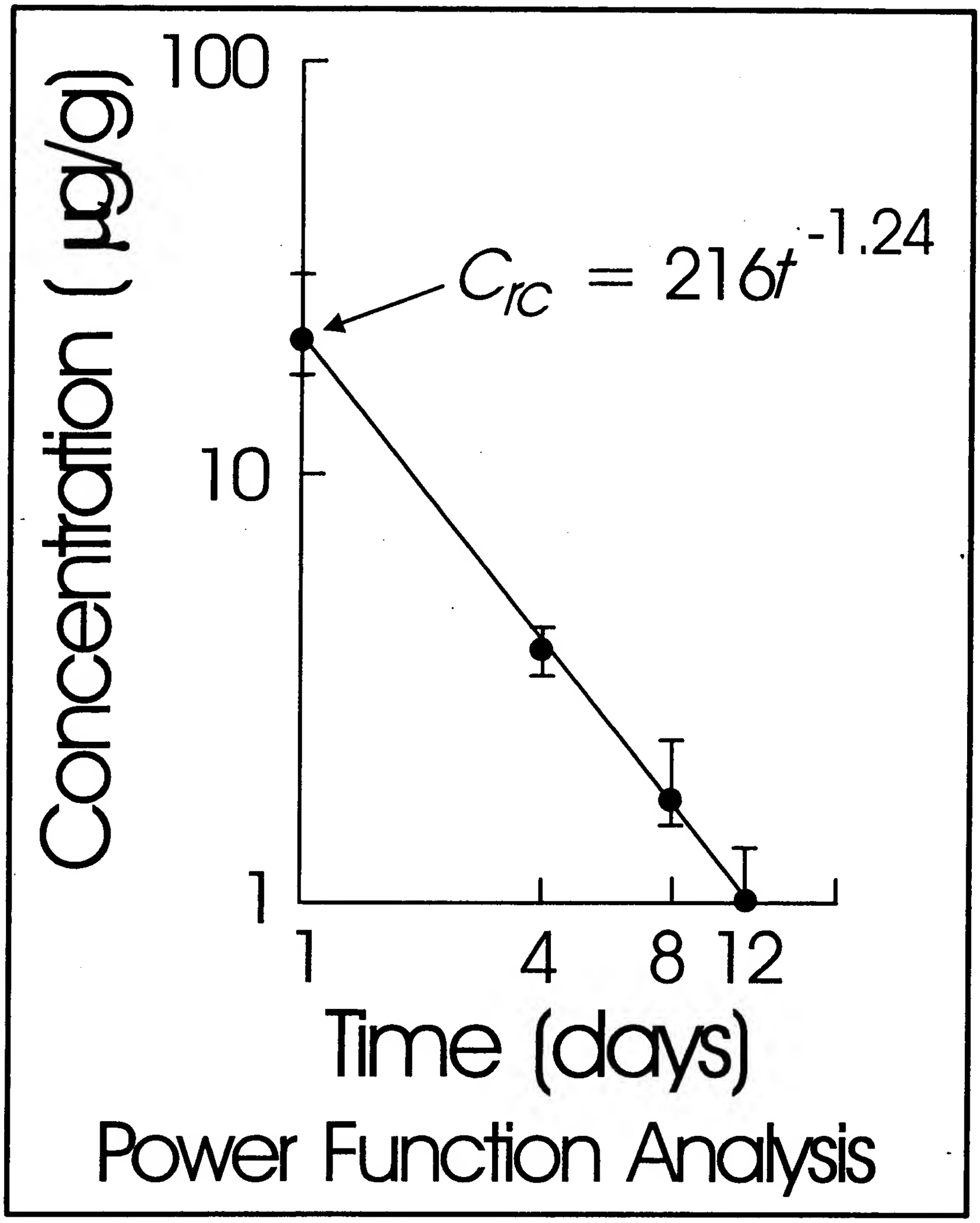
100
10
1
Concentration (µg/g)
$C_{rc} = 216t^{-1.24}$
1
4
8
12
Time (days)
Power Function Analysis

FIG 6E